

CLASSIFICATION:

**UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: <b>February 2004</b>				
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA-1</b>							P-1 ITEM NOMENCLATURE ITEMS UNDER \$5 MILLION (81LT) (0981)					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total
QUANTITY												
COST (In Millions)				\$191.2	\$134.7	\$148.6	\$144.6	\$115.4	\$115.5	\$129.9		\$979.9
SPARES COST (In Millions)												\$0.0
<p><b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>            This request provides support for all "S" cognizance equipment for submarines, surface ships, and aircraft carriers which are not in any specific category. These components will be used to accomplish both shipyard/Type Commander (TYCOM) alterations, fill Fleet requisitions from casualties, attrition, etc. as well as procure allowance items as required by the Consolidated Shipboard Allowance List (COSAL). A list of these items is provided below. This category purchases and installs various machinery pumps, generators, ships propellers and shafts, and steam propulsion items. Also included in this category are the Integrated Condition Assessment System (ICAS) and Smart Ship Initiatives. Additional explanatory notes are provided at the end of this section.</p> <p><b>LT010 - LANDING CRAFT AIR CUSHION (LCAC)</b> - This line will fund material procurement and SHIPALT installation and design for the LCAC Fleet Modernization Program (FMP). Funds in this line are for modifications on the craft to enhance military capabilities directed by CNO or technical characteristics when warranted by reason of safety, reliability and/or cost effectiveness. Advanced technology used in LCAC demands constant and continual modifications to ensure proper mission performance and maintain craft configuration. In addition, funding will also support modification on two Full Mission Trainers (FMT).</p> <p><b>LT020 - SUPPORTING ARMS COORDINATION CENTER (SACC) AUTOMATION</b> - The SACC initiative will automate the communications and data flow for fire and supporting arms for marine forces ashore. This effort will convert the current manual and voice accomplished process. It will also provide interface with the Advanced Field Artillery Tactical Data System (AFATDS) which brings the automated functions of supporting arms into the coherent tactical picture. The procurement items are jam boxes, Automated Distribution Network Systems (ADNS), racks, workstations, and communications devices.</p> <p><b>LT030 - FLUID SYSTEM IMPROVEMENT</b> - Fluid Systems on board navy surface ships and submarines consist of any distributed piping system carrying freshwater, saltwater, steam, fuel, lube oil or air and all of the ancillary hardware that supports the system, such as pumps, pipe hangers, turbines, motors, etc. These systems suffer abuse and degradation by virtue of the operating conditions within the conduit, and the equipment transporting the fluid. The maintenance and upkeep of these systems and associated support equipment are the biggest life cycle cost drivers for HM&amp;E equipment in the operating navy. Proper investigation and utilization of commercially available state of the art technology can drastically reduce maintenance costs, extend the operating life of the equipment, and increase the operational availability and reliability of the equipment.</p> <p><b>LT040 - AEC (ASSESSMENT OF EQUIPMENT CONDITION)</b> - This supports the implementation of Condition Based Maintenance (CBM) by providing work package validation for HM&amp;E systems, pre-deployment HM&amp;E systems condition assessment, OJT and repair assistance to ships during TYCOMs TARGET process. These funds are for the outfitting and periodic replacement of the AEC team's Test Measurement and Diagnostic Equipment (TMDE) inventories, provide deckplate diagnostic capability to improve the quality of AEC process and products and to leverage technology to streamline the visit process.</p>												

P-1 SHOPPING LIST

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APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY/BA-1**

P-1 ITEM NOMENCLATURE

ITEMS UNDER \$5 MILLION (81LT) (0981)

**LT050 - COMMAND AND CONTROL UPGRADES** - Modifications to provide enhancements for Fleet Commanders and embarked staff. The Navy has flagships, or command ships, for each numbered fleet under the cognizance of CINCPAC, CINCLANT, & CINCUSNAVEUR respectively. These ships serve as headquarters for the numbered Fleet Commanders and provide extensive communications, support and berthing for embarked staff. Their mission is to provide support for command and control centers.

**LT060 - MACHALTs** - The Machinery Alteration Program (MACHALT) is a program that permits changes to HM&E equipment and systems where the changes are contained within the boundaries of the individual equipment of systems and have limited system ramifications.

**LT070 - FFG 7 CLASS MODERNIZATION** - This program presently consists of 30 ships with the CORT baseline having priority. The shipalts presented in the budget are ships service diesel engines (SSDGs), reverse osmosis (RO) distilling plants, and slewing arm davits (SLADs). FY02 funding was for procurement of "qualification" units and some NRE.

**LT830 - PRODUCTION ENGINEERING** - The review and approval of any production contract technical documentation, or the separate development of this documentation to include: Technical Manuals, Planned Maintenance System (PMS), Level III Production Drawings, Provisioning Technical Documentation (PTD), Program Support Data (PSD), and Allowance Parts List (APL); engineering support for final design reviews.

**LT080 - 363 TON AIR CONDITIONING (A/C) UNIT** - This program procures and installs Air Conditioning Plants on CVN-68 Class.

**LT110- VARIOUS PROPELLERS AND SHAFTS** - DDG 51 CL: (a) BLADE SET, PORT/STBD, (b) HUB SET PORT/STBD, (c) PROP SHAFT, (d) STERN TUBE SHAFTS, AND (e) OD BOXES PORT/STBD; CG-47 CL: (a) OD BOXES PORT/STBD; CG66-73 CL: (a) HUB SET PORT/STBD AND (b) OD BOXES PORT/STBD.

**LT120 - PROPULSION PLANT INSPECTION TOOLING** - Funds will be utilized to procure latest technology inspection system tooling, i.e., laser-optic, ultrasonic, fiber-optic and electro-optic inspection systems.

**LT130 - STEAM PROPULSION ITEMS** - This provides for several initiatives oriented to upgrading boiler efficiency and safety with downstream maintenance effectiveness. In particular, the items procured include GIS Safety Valves, Compact Water Jet Units, Low Level Conductivity Meters, WMB Recirculating Pump Improvement Items, Hydrostatic Tube Kits, and Chloride Meters.

**LT140 - SMART SHIP** - This provides for the procurement and installation of proven initiatives into Navy Aircraft Carriers. The Carrier initiatives include the installation of core Smart Carrier technologies, such as Advanced Damage Control System, Integrated Condition Assessment System and JP-5 Automation. Smart Carrier will also demo smart technologies such as On-Line Monitoring, Superior Sound Technology and Laser Induced System Improvement. The goal of the Smart Ship effort is to evaluate and select solutions which demonstrate major workload reductions while maintaining or improving readiness. Lessons learned and technology previously demonstrated on ships such as the CG 47 and the LSD 47 have confirmed the value and applicability of Smart Ship Technologies and will result in future life cycle cost avoidance in manpower and ship maintenance.

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**LT150 - ICAS (FY03/FY04 CONGRESSIONAL ADD)** - Procure and install technical refresh upgrades of the ICAS hardware and software aboard approx 12 Surface Combatant hulls. Upgrades will include; ICAS workstation hardware, to include Palm Pilot PDTs, ICAS system software to latest version, CDS groom to include the implementation of developed enhancements. Ship's force refresher training. Manage contractor efforts, prepare installation plans, perform ship checks, procure material, oversee shipboard installation and QA, develop/implement CDS updates, install/test all software and CDSs, provide ships force training.

**LT160 - MACHINERY PLANT UPGRADES (ICAN)** - ICAN provides core infrastructure (node rooms, air blown fiber optic cable plant, network services) for integrating voice, video and data systems. This capability is easily upgradable for rapid and cost effective expansion to support new technologies, such as IT-21, and is compatible with the Navy integrated Information Networks MOA.

**LT240 - LPD 17 HARDWARE/SOFTWARE OBSOLESCENCE** - This effort addresses hardware obsolescence and technology refreshment issues. Funding is required to upgrade mission critical electronic systems including the Engineering Control Systems (ECS), Ship Control Systems (SCS), Degaussing System, Shipboard Wide-Area Network (SWAN), commercial software products for ECS, SCS, C4ISR and Administrative Communications.

**LT260 - LPD 4 CLASS UPGRADES** - Modifications for enhancements to LPD 4 Class ships in order to maintain, improve, and extend ship conditions for an aging class of ships. The chief enhancements include the procurement and installation of Air Conditioning Plants, Refrigerating (Reefer) Plants, Ship System Emergency Diesel Generators (SSEDGs), Boat & Aircraft (B&A) Cranes, 640 Amp Circuit Breakers, and Low Pressure Air Compressors (LPAC).

**LT270 - ARS 50 UPGRADES** - This effort consists of the procurement and installation of All Electric and Machinery Control System (MCS) material/equipment on four (4) ARS 50 Class ships. The effort will buy and install shipsets which will markedly reduce maintenance costs.

**LT280 - MISCELLANEOUS FORCE PROTECTION EQUIPMENT** - Funding is to procure equipment to support the force protection initiative for selected ships in the DDG-51 Class.

**LT300 - NCAP (FY03/FY04 CONGRESSIONAL ADD)** - Funds provide for the procurement and installation of network capable application processors, gateways, sensors, and associated hardware and software aboard twenty US NAVY (ICAS installed) ships.

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ITEMS UNDER \$5 MILLION (81LT) (0981)

**LT301 - TSIMS (FY03/FY04 CONGRESSIONAL ADD)** - Funds provide for the upgrade/installation of ICAS with the TSIMS module on two (2) CV/CVN Class ships, population of TSIMS Data sets for equipment monitored by ICAS, and development and improvement of TSIMS software for ICAS integration. Funds also provide for management of program and performance of Quality Assurance tasks, management of contracting, project management, performance of quality assurance, and update of ships' ICAS Configuration Data Sets with appropriate links to TSIMS.

**LT302 - FFG MACHINERY & DAMAGE CONTROL (FY03 CONGRESSIONAL ADD)** - This effort will provide for the procurement of a new FFG Machinery and Damage Control System for the FFG class ships. This System will provide the FFGs with a state of the art damage control system with enhanced control systems capabilities. This replacement is required due to the service life extension of the FFG class ships. A minimum of four ship sets would be procured, tested, and installed with this level of funding.

**LT303 - FEMSS (FY03 CONGRESSIONAL ADD)** - The Fuel and Engine Maintenance Savings System is primarily comprised of new, higher-efficiency propeller blades and new main propulsion control systems (Propulsion Load Management Units). Fuel and Engine Maintenance savings along with operational benefits, including improved safety, reliability, and main propulsion responsiveness will be achieved with this install.

**LT304 - FUEL CATALYST (FY03 CONGRESSIONAL ADD)** - The Fitch Fuel Catalyst induces chemical reactions among fuel molecules at low temperatures, such as those vehicles and fuel tanks experience, and returns it to its original state at the conclusion of the reaction ready to initiate a new sequence. The Fitch Fuel Catalyst assists the combustion process by insuring that fuel is highly uniform, potent, consistent, and stable.

**LT 306 - AUTOMATED VOLTAGE REGULATOR** - The Automated Voltage Regulator replaces the obsolete legacy regulator within CVN 68 Class turbine generators. The regulator is a digital, variable frequency mil-spec unit unique to this class of ship.

**LT307 - CARRIER WEAPONS ELEVATORS (FY04 CONGRESSIONAL ADD)** - This effort replaces obsolete aircraft weapons elevator Standard Electronics Module (SEM) controllers with modern Programmable Logic Controllers (PLC).

**LT5IN, LT6IN, LT8IN- INSTALLATION OF EQUIPMENT** - Funding is for installation of equipment in support of the Fleet Modernization Program (FMP).

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**Explanatory Notes:**

**VARIOUS "S" COGNIZANCE SHIPS PROPELLERS AND SHAFTS** which are not listed as separate P-1 Items. A malfunctioning propeller or shaft can result in excessive vibration, noise, loss of speed or possible loss of motion. In addition, these items are susceptible to damage, have long repair lead time, and due to their increased size and weight, are becoming more difficult to transport. It is mandatory to store propellers/shafts at sufficient locations to avoid delaying ship's deployments. It should be noted that in addition to new propellers and shafts required to support active fleet ships, planning for spares to support ship classes still under construction such as CG-47 and new ship classes being introduced such as DDG-51, must be accommodated. These propellers and shafts can be installed during drydocking, Selected Restricted Availability or Regular Overhaul and in the event of a casualty, propellers can be waterborne installed alongside a tender.

The Inventory Objective (I.O.) for propellers and shafts is a numerical quantity referred to as the "Maintenance Stock Objectives" (MSO). The MSO is a numerical quantity established for each propeller and shaft after considering: (1) the average annual demand, (2) Repair lead time, (3) safety level or the quantity required to be on hand to support unpredictable fluctuations in demand or delays in the normal refit cycle, (4) transportability considerations, and (5) Type Commanders review and recommendations. For ships entering the Fleet from the shipbuilding programs, the I.O.'s annual demand is based upon experience with similar type propellers and shafts for which supply/demand experience has been gained.

**VARIOUS STEAM PROPULSION EFFORTS** - The Steam Propulsion Improvement Program provides for ship movement through the water and in addition provides power to ships combat and habitability systems, whether electrical or steam dependent. At any given time, due to propulsion plant casualties ship propulsion systems may be operating at reduced capability, adversely affecting the ship's mission(s). The Steam Propulsion Improvement program encompasses steam and diesel propulsion surface ships in the fleet, and provides for material upgrades to propulsion systems resulting in increased readiness, safety and reliability. Items can be installed during a Regular Overhaul (ROH), Selected Restricted Availability (SRA), Restricted availability by a shipyard, tender/Intermediate Maintenance Activity or Alteration Installation Team (AIT).

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WEAPONS SYSTEM COST ANALYSIS P-5							Weapon System						DATE: February 2004			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy							ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD								
							ITEMS UNDER \$5 MILLION (81LT) (0981)									
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS													
			Prior Years	FY 2003			FY 2004			FY 2005						
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
	<u>N75 EXPEDITIONARY WARFARE</u>															
LT010	MOD KITS LAND CRAFT CUSHION	A				937			1,904			2,374				
LT020	SACC AUTOMATION					606			857			860				
LT030	FLUID SYSTEMS IMPROVEMENT			n/a		173										
LT060	MACHALTS (AMPHIB SHIPS)								1,477			1,495				
LT260	<u>LPD 4 CL UPGRADES</u>															
	<u>HYDRA</u>			6	597	3,584										
	A/C PLANTS			3	1,988	5,965	1	1,988	1,988	1	1,988	1,988				
	SHIP SYS EMERG DIESEL GEN (SSEDG)			3	1,065	3,198	2	798	1,596	1	798	798				
	B&A CRANE			2	475	950	3	431	1,293	1	431	431				
	REFER PLANTS			3	472	1,416	2	472	944	1	472	472				
	450 VAC ELECTRICAL SYSTEM			3	3,731	11,194	2	3,072	6,144	1	3,158	3,158				
	LPAC			3	359	1,076	2	359	718	1	359	359				
	<b>N75 Subtotal</b>					<b>\$29,099</b>			<b>\$16,921</b>			<b>\$11,935</b>				
	<u>N76 SURFACE WARFARE</u>															
LT040	AEC	A				426			448			430				
LT050	<u>COMMAND &amp; CONTROL UPGRADES</u>															
	GENERATORS (2000 kw)			2	1,280	2,560										
	A/C PLANTS (250 TON)		1,300	3	907	2,720										
	A/C PLANTS (125 TON)		1,500													
	LPAC (LOW PRESS AIR COMP)(LCC20)						3	220	659							
	SLEWING ARM DAVIT (SLAD)						3	155	464							
	SOLID STATE FREQ CONV (SSFC)			2	475	950										
LT060	MACHALTS (SURFACE SHIPS)	A				7,846			7,966			5,241				
LT070	<u>FFG7 CLASS MODERNIZATION</u>															
	SLEWING ARM DAVIT (SLAD)	1	586	4	197	788	4	202	808	3	208	624				
	REVERSE OSMOSIS	1	978	4	395	1,580	4	405	1,620	3	415	1,245				
	SSDG (SHIPSETS=4 GENERATORS)	1	2,860	3	1,525	4,575	5	1,553	7,765	3	1,582	4,746				

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System						DATE: February 2004			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD								
						ITEMS UNDER \$5 MILLION (81LT) (0981)									
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2003			FY 2004			FY 2005					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost			
LT110	<b><u>N76 SURFACE WARFARE (CONT)</u></b>														
	<u>PROPELLERS AND SHAFTS</u>														
	BLADE SET PORT/STBD, DDG-51 CL	A		1	790	790				1	990	990			
	HUB SET PORT/STBD, DDG-51 CL	A								1	928	928			
	HUB SET PORT/STBD, CG 66-73	A													
	PROP SHAFT DDG-51 CL	A		1	580	580									
	OD BOXES CG47 CL			1	227	227									
	OD BOXES DDG51-CL			1	229	229									
	OD BOXES CG 66-73 CL														
LT120	PROPULSION PLANT INSPECTION	A				30									
LT130	STEAM PROPULSION ITEMS								305			292			
LT150	ICAS	A				4,000			1,400						
LT270	<u>ARS-50 CLASS UPGRADES</u>														
	REVERSE OSMOSIS						1	345	345	1	345	345			
	MACHINERY CONTROL SYSTEM									1	1,074	1,074			
LT300	NCAP					8,500			5,950						
LT302	MACHINERY & DAMAGE CTL (FFG)					3,400									
LT304	FUEL CATALYST					3,000									
LT830	<u>PRODUCTION ENGINEERING</u>														
	HM&E	A				100									
	PROP SURF	A				10									
	PROPS & SHAFTS	A				15									
		<b>N76 Subtotal</b>					<b>42,326</b>			<b>27,730</b>			<b>15,915</b>		

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						ITEMS UNDER \$5 MILLION (81LT) (0981)										
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS													
			Prior Years	FY 2003			FY 2004			FY 2005						
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost				
	<u>N78 AIRCRAFT CARRIERS</u>															
LT080	363 TON A/C PLANT	A														
LT120	PROPULSION PLANT INSPECTION	A				129			129			159				
LT140	SMART SHIP			2		45,554	\1_		6,988	2		44,946				
LT160	MACHINERY PLANT UPGRADES	A		1	2,999	2,999	2	1,500	3,000	2	1,000	2,000				
LT301	TSIMS					1,800			1,400							
LT305	AIRCRAFT SUPT EQUIP (ASE GCU)								850							
LT307	CARRIER WEAPONS ELEVATOR								2,700							
LT830	PRODUCTION ENGINEERING					28			30			31				
	N78 Subtotal					50,510			15,097			47,136				
	<u>N7</u>															
LT280	MISC FORCE PROTECTION EQUIP					0			690			450				
	N7 Subtotal					0			690			450				
	TOTAL EQUIPMENT					121,935			60,438			75,436				
	<u>INSTALLATION</u>															
LT5IN	INSTALL OF EQUIPMENT- N75 AMPHIB					18,792			55,802			33,198				
LT6IN	INSTALL OF EQUIPMENT- N76 SURFACE					22,362			11,234			33,386				
LT8IN	INSTALL OF EQUIPMENT - N78 CARRIERS					28,127			7,183			6,617				
	TOTAL INSTALLATION					69,281			74,219			73,201				
						191,216			134,657			148,637				

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<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b>					Weapon System		A. DATE <b>February 2004</b>			
B. APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy</b>					C. P-1 ITEM NOMENCLATURE <b>ITEMS UNDER \$5 MILLION</b>				SUBHEAD <b>81LT</b>	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<b><u>FY 03</u></b>										
<b>LT050 C&amp;C CLASS UPGRADES</b>										
GENERATORS (2000kw)	2	1,280	NAVSEA		FFP	Catepillar Inc	Dec-02	Mar-03		
A/C PLANT (250 TON)	3	907	NAVSEA		OPT	YORK INT, YORK, PA	Nov-02	Nov-03		
SSFC	2	475	NAVSEA		FFP	JJMA	Nov-02	Feb-03		
<b>LT110 PROPS &amp; SHAFTS</b> (BLADE SETS PORT/STBD)										
DDG-51 CL	1	790	NAVICP MECH		RCP	TBD	Sep-03	Mar-05		
(PROP SHAFTS) DDG-51 CL	1	580	NAVICP MECH		RCP	TBD	Sep-03	Mar-05		
(OD BOXES) CG-47 CL	1	227	NAVICP MECH		RCP	TBD	Sep-03	Oct-04		
DDG-51 CL	1	229	NAVICP MECH		RCP	TBD	Sep-03	Oct-04		
<b>LT140 SMART SHIP \1_</b> CARRIERS	2	Var	NAVSEA		VARIOUS	VARIOUS	Dec-02	Feb-03		
<b>LT160</b> MACH PLANT UPGR	1	2,999	NSWC, PHIL		VARIOUS	VARIOUS	Dec-02	\2_		
D. REMARKS \1_ For SMART SHIP, quantities represent ship installations; \$ are total budget. \2_ For Mach Plant Upgr, delivery of items vary from short term (6 weeks) up to several months.										

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE <b>February 2004</b>			
B. APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy</b>					C. P-1 ITEM NOMENCLATURE <b>ITEMS UNDER \$5 MILLION</b>				SUBHEAD <b>81LT</b>	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<b><u>FY 03 (Continued)</u></b>										
<b>LT260 LPD 4 CLASS UPGRADES</b>										
HYDRA	6	597	SPAWAR CHASN		FFP	M/A-Com	May-03	Dec-03		
A/C PLANT	3	1,988	NSWCCD-SSES		FFP	YORK INT, YORK, PA	Apr-03	Feb-04		
SSEDG	3	1,065	NSWCCD-SSES		FFP	Catepillar Inc	Apr-03	Feb-04		
B & A CRANE	2	475	NSWCCD-SSES		FFP	Appleton Marine Inc.	May-03	Nov-03		
REFER PLANTS	3	472	SSPORT&SSSD		TBD	Marlo Coil	Apr-03	Sep-03		
SWITCHBOARDS	3	3,731	NSWCCD-SSES		FFP	NMP Corp	Apr-03	Dec-03		
LPAC	3	359	SSPORT&SSSD		FFP	RIX	Apr-03	Sep-03		
<b>LT070 FFG7 CL MODERNIZATION</b>										
SLADs	4	197	NAVSEA		FFP	WELIN LAMBIE, LONDON, ENGLAND	Dec-02	May-03		
REVERSE OSMOSIS	4	395	NAVSEA		FFP	AQUA-CHEM, INC, KNOXVILLE, TN	Nov-03	May-03		
SSDGs	3	1,525	NAVSEA		FFP	CATERPILLAR/PEORIA, IL	Dec-03	May-03		
D. REMARKS										

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<b>B. APPROPRIATION/BUDGET ACTIVITY</b> <b>Other Procurement, Navy</b>					<b>C. P-1 ITEM NOMENCLATURE</b> <b>ITEMS UNDER \$5 MILLION</b>				<b>SUBHEAD</b> <b>81LT</b>	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<b><u>FY 04</u></b>										
<b>LT050 C&amp;C CLASS UPGRADES</b>										
LPAC (LCC20)	3	220	TBD		TBD	TBD	Nov-03	Nov-04		
SLADs	3	155	TBD		TBD	TBD	Dec-03	Jun-04		
<b>LT070 FFG7 CL MODERNIZATION</b>										
SLADs	4	202	NAVSEA		FFP (OPT)	WELIN LAMBIE, LONDON, ENGLAND	Dec-03	Jun-04		
REVERSE OSMOSIS	4	405	NAVSEA		FFP (OPT)	AQUA-CHEM, INC, KNOXVILLE, TN	Dec-03	Jun-04		
SSDGs \1_	5	1,553	NAVSEA		FFP (OPT)	CATERPILLAR/PEORIA, IL	Dec-03	Jun-04		
<b>LT160</b>										
MACH PLANT UPGR	2	1,500	NSWC, PHIL		VARIOUS	VARIOUS	Dec-03	\2_		
D. REMARKS										
\1_ For FFG7 SSDGs, a Ship Set (S/S) is 4 generators.										
\2_ For Mach Plant Upgr, delivery of items vary from short term (6 weeks) up to several months.										

CLASSIFICATION:

**UNCLASSIFIED**

<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b>					Weapon System		A. DATE <b>February 2004</b>			
B. APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy</b>					C. P-1 ITEM NOMENCLATURE <b>ITEMS UNDER \$5 MILLION</b>				SUBHEAD <b>81LT</b>	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<b><u>FY 04 (Continued)</u></b>										
<b>LT260 LPD 4 CLASS UPGRADES</b>										
A/C PLANT	1	1,988	NSWCCD-SSES		OPT	YORK INT, YORK, PA	Nov-03	Nov-04		
SSEDG	2	798	NSWCCD-SSES		OPT	Catepillar Inc	Nov-03	Nov-04		
B & A CRANE	3	431	NSWCCD-SSES		OPT	Appleton Marine Inc.	Nov-03	Apr-04		
REFER PLANTS	2	472	SSPORT&SSD		TBD	TBD	Nov-03	Sep-04		
SWITCHBOARDS	2	3,072	NSWCCD-SSES		OPT	NMP Corp	Nov-03	May-04		
LPAC	2	359	SSPORT&SSD		TBD	TBD	Nov-03	Oct-04		
<b>LT270 ARS 50 CLASS UPGRADES</b>										
REVERSE OSMOSIS	1	345	TBD		TBD	TBD	Nov-03	May-04		
D. REMARKS										

CLASSIFICATION:

**UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE <b>February 2004</b>			
B. APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy</b>					C. P-1 ITEM NOMENCLATURE <b>ITEMS UNDER \$5 MILLION</b>				SUBHEAD <b>81LT</b>	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<b>FY 05</b>										
<b>LT070 FFG7 CL MODERNIZATION</b>										
SLADs	3	208	NAVSEA		FFP (OPT)	WELIN LAMBIE, LONDON, ENGLAND	Dec-04	Jun-05		
REVERSE OSMOSIS	3	415	NAVSEA		FFP (OPT)	AQUA-CHEM, INC, KNOXVILLE, TN	Dec-04	Jun-05		
SSDGs\3_	3	1,582	NAVSEA		FFP (OPT)	CATERPILLAR/PEORIA, IL	Dec-04	Jun-05		
<b>LT110 PROPS &amp; SHAFTS</b>										
(BLADE SETS PORT/STBD)										
DDG-51 CL	1	990	NAVICP MECH		RCP	TBD	Mar-05	May-07		
HUB SET/PORT/STBD										
DDG-51 CL	1	928	NAVICP MECH		RCP	TBD	Mar-05	May-07		
<b>LT140 SMART SHIP \1_</b>										
CARRIERS	2	Var	NAVSEA		VARIOUS	VARIOUS	Dec-04	Feb-05		
<b>LT160</b>										
MACH PLANT UPGR	2	1,000	NSWC, PHIL		VARIOUS	VARIOUS	Dec-04	\2_		
<b>LT260 LPD 4 CLASS UPGRADES</b>										
AC PLANT	1	1,988	NSWCCD-SSES		TBD	TBD	Jan-05	Jan-06		
SSEDG	1	798	NSWCCD-SSES		TBD	TBD	Nov-04	Nov-05		
REFER PLANTS	1	472	SSPORT&SSSD		TBD	TBD	Nov-04	Sep-05		
SWITCHBOARDS	1	3,158	NSWCCD-SSES		TBD	TBD	Nov-04	May-05		
LPAC	1	359	SSPORT&SSSD		TBD	TBD	Nov-04	Oct-05		
B&A CRANE	1	431	NSWCCD-SSES		TBD	TBD	Nov-04	May-05		
<b>LT270 ARS 50 CLASS UPGRADES</b>										
Reverse Osmosis	1	345	TBD		TBD	TBD	Nov-04	May-05		
MCS	1	1,074	TBD		TBD	TBD	Nov-04	May-05		
D. REMARKS										
\1_ For SMART SHIP, quantities represent ship installations; \$ are total budget.										
\2_ For Mach Plant Upgr, delivery of items vary from short term (6 weeks) up to several months.										
\3_ For FFG7 SSDGs, a Ship Set (S/S) is 4 generators.										

CLASSIFICATION: UNCLASSIFIED

February 2004

P3A

## INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: FFG7 CLASS SLEWING ARM DAVIT (SLAD) (LT070) S/A #436K TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M

## DESCRIPTION/JUSTIFICATION:

This shipalt replaces the existing trackway davit with a COTS davit with constant tension winch. The RHIB will be retained and modifications will be required to the 01 level platform, boat cradles and liferails. Installation of a COTS Davit will allow the RHIB to be used in higher sea states, expanding boat mission capability for at-sea rescue operations and will also result in a significant weight reduction and reduce the number of man-hours required for maintenance. The Navy standard SLAD is significantly more expensive than a COTS system and employs old technology. The newer COTS davits utilize many safety features that the Navy standard SLAD does not.

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

	Prior Year		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL			
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$		
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<u>RDT&amp;E</u>																				0.0		
<u>PROCUREMENT</u>																						
INSTALLATION KITS																				0.0		
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																				0.0		
EQUIPMENT			1	0.6	4	0.8	4	0.8	3	0.6	4	0.9	4	0.9	5	1.1	6	1.4		31	7.1	
EQUIPMENT NONRECURRING																				0.0		
ENGINEERING CHANGE ORDERS																				0.0		
DATA																				0.0		
TRAINING EQUIPMENT																				0.0		
SUPPORT EQUIPMENT																				0.0		
OTHER																				0.0		
OTHER																				0.0		
OTHER																				0.0		
INTERIM CONTRACTOR SUPPORT																				0.0		
INSTALL COST			1	*	2	1.6	4	1.5	3	1.0	3	1.0	5	1.5	5	1.5	4	1.3	4	1.4	31	10.8
TOTAL PROCUREMENT		0.0		0.6		2.4		2.3		1.6		1.9		2.4		2.6		2.7		1.4		17.9

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CLASSIFICATION: UNCLASSIFIED

\* In FY02 one (1) SLAD unit was procured for testing. No installation funding is required.

P3A (Continued)

## INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: FFG 7 CL SLEWING ARM DAVIT (SLAD)  
(LT070) S/A #436

MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYD/COMP

ADMINISTRATIVE LEADTIME:

3 Months

PRODUCTION LEADTIME:

6 Months

CONTRACT DATES:

FY 2003:

12/02

FY 2004:

12/03

FY 2005:

12/04

DELIVERY DATE:

FY 2003:

05/03

FY 2004:

06/04

FY 2005:

06/05

(\$ in Millions)

Cost:	Prior Y	Prior Year	FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																				
FY 2002 EQUIPMENT	1	*																	1	0.0
FY 2003 EQUIPMENT			2	1.6	2	0.7													4	2.3
FY 2004 EQUIPMENT					2	0.7	2	0.6											4	1.3
FY 2005 EQUIPMENT					AP	0.1	1	0.3	2	0.6									3	1.0
FY 2006 EQUIPMENT							AP	0.1	1	0.3	3	0.8							4	1.2
FY 2007 EQUIPMENT									AP	0.1	2	0.6	2	0.6					4	1.3
FY 2008 EQUIPMENT											AP	0.1	3	0.8	2	0.6			5	1.5
FY 2009 EQUIPMENT													AP	0.1	2	0.7	4	1.4	6	2.2
TO COMPLETE																				

## INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
In	1	0	0	1	1	0	1	2	1	0	0	1	2	0	1	0	2	2	1	1	1	0	2	1	2	0	0	3	1	4	31
Out	1	0	0	0	0	1	1	1	2	1	0	0	2	2	1	0	1	1	2	1	0	2	0	2	0	3	0	0	3	4	31

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\* In FY02 one (1) SLAD unit is being procured for testing. Installation funds are not required.

CLASSIFICATION: UNCLASSIFIED

February 2004

P3A

## INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: FFG 7 CLASS REVERSE OSMOSIS  
(LT070) S/A #429K

TYPE MODIFICATION: MODIFICATION TITLE: ITEMS UNDER 5M

## DESCRIPTION/JUSTIFICATION:

This shipalt replaces the two existing 4,000 GPD submerged tube distilling plants with two 6,800 GPD single pass RO desalinators. The existing distilling plant system has marginal capacity to meet ships potable water demands. Installation of 6,800 GPD RO desalinization system will reduce ships force desalination plant workload and reduce part costs requirements.

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	QTY	\$	Prior Year QTY	\$	FY 2003 QTY	\$	FY 2004 QTY	\$	FY 2005 QTY	\$	FY 2006 QTY	\$	FY 2007 QTY	\$	FY 2008 QTY	\$	FY 2009 QTY	\$	TC QTY	\$	TOTAL QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<u>RDT&amp;E</u>																						0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT			1	1.0	4	1.6	4	1.6	3	1.2	4	1.7	5	2.2	5	2.2	5	2.3			31	13.8
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER																						0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST			1	*	2	2.3	4	3.5	3	2.7	3	2.3	5	4.9	4	3.2	5	3.4	4	3.3	31	25.6
TOTAL PROCUREMENT		0.0		1.0		3.9		5.1		3.9		4.0		7.1		5.4		5.7		3.3		39.4

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CLASSIFICATION: UNCLASSIFIED

\* In FY02 one (1) RO unit was procured for testing. Installation funds are not required.

CLASSIFICATION: UNCLASSIFIED

February 2004

P3A (Continued)

## INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: FFG7 CLASS REVERSE OSMOSIS  
 (LT070) S/A #429K

MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION:

SHIPYD/COMP

ADMINISTRATIVE LEADTIME:

3 Months

PRODUCTION LEADTIME:

6 Months

CONTRACT DATES:

FY 2003:

11/02

FY 2004:

12/03

FY 2005:

12/04

DELIVERY DATE:

FY 2003:

05/03

FY 2004:

6/04

FY 2005:

6/05

(\$ in Millions)

Cost:			Prior Year		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																					0	0.0
FY 2002 EQUIPMENT			1	*																	1	0.0
FY 2003 EQUIPMENT					2	2.3	2	1.7													4	4.0
FY 2004 EQUIPMENT							2	1.7	2	1.6											4	3.3
FY 2005 EQUIPMENT							AP	0.1	1	1.0	2	1.1									3	2.2
FY 2006 EQUIPMENT									AP	0.1	1	1.1	3	2.5							4	3.7
FY 2007 EQUIPMENT											AP	0.1	2	2.1	3	1.9					5	4.1
FY 2008 EQUIPMENT													AP	0.3	1	1.3	4	2.7			5	4.3
FY 2009 EQUIPMENT																	1	0.7	4	3.3	5	4.0
TO COMPLETE																						

## INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	1	0	0	1	1	0	1	2	1	0	0	1	2	0	1	0	2	2	1	1	1	0	2	0	2	0	0	3	2	4	31
Out	1	0	0	0	0	1	1	1	2	1	0	0	2	2	1	0	1	1	1	2	1	2	0	2	0	2	0	0	2	5	31

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CLASSIFICATION: UNCLASSIFIED

\* In FY02 one (1) RO unit is being procured for testing. Installation funds are not required.

CLASSIFICATION: UNCLASSIFIED

February 2004

P3A

## INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: FFG7 CL SHIP SVC DIESEL GEN (SSDG) (LT070) S/A #423K TYPE MODIFICATION: MODIFICATION TITLE: ITEMS UNDER 5M

## DESCRIPTION/JUSTIFICATION:

This shipalt is for the replacement of the ship service diesel engines on FFGs. The alt will replace SSDG engines to improve reliability and eliminate obsolescence issues. The SSDG provides all of the electrical power in all spaces (engineering, deck, galley, combat systems, etc).

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	QTY	\$	Prior Year QTY	\$	FY 2003 QTY	\$	FY 2004 QTY	\$	FY 2005 QTY	\$	FY 2006 QTY	\$	FY 2007 QTY	\$	FY 2008 QTY	\$	FY 2009 QTY	\$	TC QTY	\$	TOTAL QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
<u>RDT&amp;E</u>																						0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT			1	2.9	3	4.6	5	7.8	3	4.7	5	8.1	3	4.9	5	8.4	6	10.2			31	51.6
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER																						0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST			1	*	2	3.3	4	5.7	3	5.9	3	5.7	3	6.8	4	7.1	4	6.1	7	8.6	31	49.2
TOTAL PROCUREMENT				2.9		7.9		13.5		10.6		13.8		11.7		15.5		16.3		8.6		100.8

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CLASSIFICATION: UNCLASSIFIED

\* In FY02 one (1) RO unit was procured for testing. Installation funds are not required.

CLASSIFICATION: UNCLASSIFIED

February 2004

P3A (Continued)		<b>INDIVIDUAL MODIFICATION (Continued)</b>																	
MODELS OF SYSTEMS AFFECTED: <u>FFG7 CL SHIP SVC DIESEL GEN (SSDG)</u> (LT070) S/A #423K		MODIFICATION TITLE: <u>ITEMS UNDER 5M</u>																	
INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: <u>SHIPYD/COMP</u>																			
ADMINISTRATIVE LEADTIME: <u>3 Months</u>		PRODUCTION LEADTIME: <u>6 Months</u>																	
CONTRACT DATES: <u>                    </u>		FY 2003: <u>12/02</u>				FY 2004: <u>12/03</u>				FY 2005: <u>12/04</u>									
DELIVERY DATE: <u>                    </u>		FY 2003: <u>5/03</u>				FY 2004: <u>6/04</u>				FY 2005: <u>6/05</u>									

(\$ in Millions)

Cost:			Prior Year		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																					0	0.0
FY 2002 EQUIPMENT			1	*																	1	0.0
FY 2003 EQUIPMENT					2	3.3	1	1.3													3	4.6
FY 2004 EQUIPMENT							3	4.2	2	3.6											5	7.8
FY 2005 EQUIPMENT							AP	0.2	1	2.1	2	2.8									3	5.1
FY 2006 EQUIPMENT									AP	0.2	1	2.6	3	5.5	1	1.4					5	9.7
FY 2007 EQUIPMENT											AP	0.3	AP	1.0	3	4.7					3	6.0
FY 2008 EQUIPMENT													AP	0.3	AP	1.0	4	6.1	1	1.6	5	9.0
FY 2009 EQUIPMENT																			6	7.0	6	7.0
TO COMPLETE																						

## INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	1	0	0	1	1	0	1	2	1	0	0	1	2	0	1	0	2	2	1	0	0	0	2	0	2	0	0	3	1	7	31
Out	1	0	0	0	0	1	1	1	2	2	0	0	2	1	1	0	1	1	1	2	0	0	0	2	0	2	0	0	3	7	31

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CLASSIFICATION: UNCLASSIFIED

\* In FY02 one (1) RO unit is being procured for testing. Installation funds are not required.

CLASSIFICATION: UNCLASSIFIED

February 2004

P3A

## INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED:

ARS50 CL MACH CONTROL SYS (MCS)  
(LT270) S/A #1139K

TYPE MODIFICATION:

MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

Effort consists of the procurement and installation of All Electric and Machinery Control System (MCS) material/equipment on four (4) ARS 50 Class ships. Funds will buy and install shipsets which will markedly reduce maintenance costs.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	QTY	\$	Prior Year QTY	\$	FY 2003 QTY	\$	FY 2004 QTY	\$	FY 2005 QTY	\$	FY 2006 QTY	\$	FY 2007 QTY	\$	FY 2008 QTY	\$	FY 2009 QTY	\$	TC QTY	\$	TOTAL QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<u>RDT&amp;E</u>																						0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT			1	0.8					1	1.1	1	1.1	1	1.2							4	4.2
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER																						0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST							AP	0.3	1	3.1	1	3.1	1	3.3	1	3.3					4	13.1
TOTAL PROCUREMENT		0.0	1.0	0.8		0.0		0.3		4.2		4.2		4.5		3.3		0.0				17.3

CLASSIFICATION: **UNCLASSIFIED**

February 2004

P3A (Continued)		<b>INDIVIDUAL MODIFICATION (Continued)</b>																			
MODELS OF SYSTEMS AFFECTED: _____ (LT270) S/A #1139K  INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: _____ ADMINISTRATIVE LEADTIME: _____ CONTRACT DATES: _____ DELIVERY DATE: _____		ARS50 CL MACH CONTROL SYS (MCS) MODIFICATION TITLE: <u>ITEMS UNDER 5M</u>  SHIPYD/COMP 3 Months PRODUCTION LEADTIME: 6 Months FY 2003: _____ FY 2004: _____ FY 2005: 11/04 FY 2003: _____ FY 2004: _____ FY 2005: 5/05																			
(\$ in Millions)																					

Cost:			Prior Year		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS							AP	0.3	1	2.8											1	3.1
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT																					0	0.0
FY 2004 EQUIPMENT																					0	0.0
FY 2005 EQUIPMENT									AP	0.3	1	2.8									1	3.1
FY 2006 EQUIPMENT											AP	0.3	1	3.0							1	3.3
FY 2007 EQUIPMENT													AP	0.3	1	3.3					1	3.6
FY 2008 EQUIPMENT																					0	0.0
FY 2009 EQUIPMENT																					0	0.0
TO COMPLETE																						

## INSTALLATION SCHEDULE:

		FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In		0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	4
Out		0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	4

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CLASSIFICATION: UNCLASSIFIED

February 2004

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## INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED:

ARS50 CLASS REVERSE OSMOSIS

TYPE MODIFICATION:

MODIFICATION TITLE:

ITEMS UNDER 5M

(LT270) S/A #1102K

DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	QTY	\$	Prior Year QTY	\$	FY 2003 QTY	\$	FY 2004 QTY	\$	FY 2005 QTY	\$	FY 2006 QTY	\$	FY 2007 QTY	\$	FY 2008 QTY	\$	FY 2009 QTY	\$	TC QTY	\$	TOTAL QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<u>RDT&amp;E</u>																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT							1	0.4	1	0.4	1	0.4	1	0.4							4	1.6
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER																						0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST							AP	0.1	1	0.4	1	0.4	1	0.4	1	0.3					4	1.6
TOTAL PROCUREMENT		0.0		0.0		0.0		0.5		0.8		0.8		0.8		0.3		0.0				3.2

P3A (Continued)

## INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: ARS50 CLASS REVERSE OSMOSIS MODIFICATION TITLE: ITEMS UNDER 5M  
 (LT270) S/A #1102K

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

SHIPYD/COMP

ADMINISTRATIVE LEADTIME:

3 Months

PRODUCTION LEADTIME:

6 Months

CONTRACT DATES:

FY 2003:

FY 2004:

11/03

FY 2005:

11/04

DELIVERY DATE:

FY 2003:

FY 2004:

5/04

FY 2005:

5/05

(\$ in Millions)

Cost:			Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																					0	0.0
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT																					0	0.0
FY 2004 EQUIPMENT							AP	0.1	1	0.4											1	0.5
FY 2005 EQUIPMENT											1	0.4									1	0.4
FY 2006 EQUIPMENT													1	0.4							1	0.4
FY 2007 EQUIPMENT															1	0.3					1	0.3
FY 2008 EQUIPMENT																					0	0.0
FY 2009 EQUIPMENT																					0	0.0
TO COMPLETE																						

## INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	4
Out	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	4

P-3A

CLASSIFICATION: UNCLASSIFIED

February 2004

P3A

## INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: AUTO VOLTAGE REGULATOR

TYPE MODIFICATION: \_\_\_\_\_

MODIFICATION TITLE: ITEMS UNDER 5M

## DESCRIPTION/JUSTIFICATION:

The Automated Voltage Regulator replaces the obsolete legacy regulator within CVN 68 Class turbine generators. The regulator is a digital variable frequency mil-spec unit unique to this class of ship.

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

	QTY	\$	Prior Years QTY	\$	FY 2003 QTY	\$	FY 2004 QTY	\$	FY 2005 QTY	\$	FY 2006 QTY	\$	FY 2007 QTY	\$	FY 2008 QTY	\$	FY 2008 QTY	\$	TC QTY	\$	TOTAL QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<u>RDT&amp;E</u>																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT											4	2.2	6	3.0							10	5.2
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER																						0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST													10	3.6							10	3.6
TOTAL PROCUREMENT												2.2		6.6								8.8

CLASSIFICATION: UNCLASSIFIED

February 2004

P3A (Continued)

## INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: Auto Voltage Regulator

MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

SHIPYD/COMP

ADMINISTRATIVE LEADTIME:

12 Months

PRODUCTION LEADTIME:

6 Months

CONTRACT DATES:

FY 2003:

FY 2004:

FY 2005:

DELIVERY DATE:

FY 2003:

FY 2004:

FY 2005:

(\$ in Millions)

Cost:			Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																					21	0.0
FY 2002 EQUIPMENT																					1	0.0
FY 2003 EQUIPMENT																					0	0.0
FY 2004 EQUIPMENT																					0	0.0
FY 2005 EQUIPMENT																					0	0.0
FY 2006 EQUIPMENT												4	1.6								4	1.6
FY 2007 EQUIPMENT												6	2.0								6	2.0
FY 2008 EQUIPMENT																					0	0.0
FY 2009 EQUIPMENT																					0	0.0
TO COMPLETE																						

\*Two plant installs on CV67; one plant install on CVN73

## INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	0	0	0	0	0	0	0	0	0	10
Out	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	0	0	0	0	0	0	0	10

NEED INSTALL DATE

P-3A

CLASSIFICATION: UNCLASSIFIED

February 2004

P3A

## INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: 363 TON AIR CONDITIONER  
(LT080) VARIOUS S/A

TYPE MODIFICATION: \_\_\_\_\_

MODIFICATION TITLE: ITEMS UNDER 5M

## DESCRIPTION/JUSTIFICATION:

The air conditioning plants provide cooling to the chilled water system which is a vital system supporting the ship's critical offensive, and defensive electronic systems. Lack of a continuous supply of chilled water to these vital systems has a serious effect on mission capability. The chilled water demand on aircraft carriers has grown as a result of installation of numerous electronic systems.

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

	QTY	\$	Prior Years QTY	\$	FY 2003 QTY	\$	FY 2004 QTY	\$	FY 2005 QTY	\$	FY 2006 QTY	\$	FY 2007 QTY	\$	FY 2008 QTY	\$	FY 2008 QTY	\$	TC QTY	\$	TOTAL QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<u>RDT&amp;E</u>																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT			22	21.3																	22	21.3
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER																						0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST			18	119.6	3	22.4	AP	0.7	AP	1.0	1	9.0									22	152.7
TOTAL PROCUREMENT		0.0		140.9		22.4		0.7		1.0		9.0		0.0		0.0		0.0				174.0

CLASSIFICATION: UNCLASSIFIED

February 2004

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED:

363 TON A/C (LT080) CVN  
(LT080) VARIOUS S/A

MODIFICATION TITLE:

ITEMS UNDER 5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

CONTRACT DATES:

DELIVERY DATE:

SHIPYD/COMP

12 Months

PRODUCTION LEADTIME:

15 Months

FY 2003:

FY 2004:

FY 2005:

FY 2003:

FY 2004:

FY 2005:

(\$ in Millions)

Cost:			Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS			18	119.6	3*	22.4															21	142.0
FY 2002 EQUIPMENT							AP	0.7	AP	1.0	1	9.0									1	10.7
FY 2003 EQUIPMENT																					0	0.0
FY 2004 EQUIPMENT																					0	0.0
FY 2005 EQUIPMENT																					0	0.0
FY 2006 EQUIPMENT																					0	0.0
FY 2007 EQUIPMENT																					0	0.0
FY 2008 EQUIPMENT																					0	0.0
FY 2009 EQUIPMENT																					0	0.0
TO COMPLETE																						

\*Two plant installs on CV67; one plant install on CVN73

INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	18	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Out	17	1	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	22

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## February 2004

### INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED:	LPD 4 CLASS A/C PLANT (LT260 S/A #1269K)	TYPE MODIFICATION:	MODIFICATION TITLE:	ITEMS UNDER 5M
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DESCRIPTION/JUSTIFICATION:

This shipalt replaces the currently installed 75 Ton AC Plants with 200 Ton AC Plants on six extended sustainability LPD 4 class ships to meet eletronic material and personnel habitability requirements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:	
--	--

			Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<u>RDT&amp;E</u>																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT			1	2.0	3	6.0	1	2.0	1	2.0											6	12.0
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER																						0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST							3	16.8	2	11.2	1	5.3									6	33.3
TOTAL PROCUREMENT		0.0		2.0		6.0		18.8		13.2		5.3		0.0		0.0		0.0				45.3

February 2004

**INDIVIDUAL MODIFICATION (Continued)**

MODIFICATION TITLE: ITEMS UNDER 5M

SHIPYD/COMP

PRODUCTION LEADTIME: 10 to 12 Months

FY 2005: 01/05

FY 2005:	01/06
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(\$ in Millions)

[illegible]

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED

February 2004

P3A

## INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: LPD 4 CLASS SSEDG TYPE MODIFICATION:                      MODIFICATION TITLE: ITEMS UNDER 5M  
 (LT260 S/A #1274K)

## DESCRIPTION/JUSTIFICATION:

This shipalt replaces the currently installed 300KW EDGS with an SS/EDGS on six extended sustainability LPD 4 class ships.

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	QTY	\$	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
			QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<u>RDT&amp;E</u>																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT					3	3.2	2	1.6	1	0.8											6	5.6
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER																						0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST					1	10.2	2	19.0	1	9.4	2	16.2									6	54.8
TOTAL PROCUREMENT		0.0		0.0		13.4		20.6		10.2		16.2		0.0		0.0		0.0				60.4

P3A (Continued)

## INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED:

LPD 4 CLASS SSEDG  
(LT260 S/A #1274K)

MODIFICATION TITLE:

ITEMS UNDER 5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

SHIPYD/COMP

ADMINISTRATIVE LEADTIME:

3 Months

PRODUCTION LEADTIME:

10 to 12 Months

CONTRACT DATES:

FY 2003:

4/03

FY 2004:

11/03

FY 2005:

11/04

DELIVERY DATE:

FY 2003:

2/04

FY 2004:

11/04

FY 2006:

11/05

(\$ in Millions)

Cost:			Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																					0	0.0
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT					1	10.2	2	18.8													3	29.0
FY 2004 EQUIPMENT							AP	0.2	1	9.2	1	8.1									2	17.5
FY 2005 EQUIPMENT									AP	0.2	1	8.1									1	8.3
FY 2006 EQUIPMENT																					0	0.0
FY 2007 EQUIPMENT																					0	0.0
FY 2008 EQUIPMENT																					0	0.0
FY 2009 EQUIPMENT																					0	0.0
TO COMPLETE																						

## INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	1	0	1	1	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Out	0	0	0	0	0	0	0	1	1	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6

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CLASSIFICATION: UNCLASSIFIED

February 2004

P3A

## INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED:

LPD 4 CLASS B&A CRANE  
(LT260 S/A #1280K)

TYPE MODIFICATION:

MODIFICATION TITLE:

ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

This shipalt replaces the currently installed, high maintenance cost, Boat and Aircraft (B&A) crane with a highly reliable crane which is based on proven commercial technology. These will be installed on six extended sustainability LPD 4 class ships.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																				
<u>RDT&amp;E</u>																			0	0.0
<u>PROCUREMENT</u>																				
INSTALLATION KITS																			0	0.0
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				0.0
EQUIPMENT					2	1.0	3	1.3	1	0.4									6	2.7
EQUIPMENT NONRECURRING																				0.0
ENGINEERING CHANGE ORDERS																				0.0
DATA																				0.0
TRAINING EQUIPMENT																				0.0
SUPPORT EQUIPMENT																				0.0
OTHER																				0.0
OTHER																				0.0
OTHER																				0.0
INTERIM CONTRACTOR SUPPORT																				0.0
INSTALL COST							4	3.3	AP	0.1	2	1.6							6	5.0
TOTAL PROCUREMENT		0.0		0.0		1.0		4.6		0.5		1.6		0.0		0.0		0.0		7.7

CLASSIFICATION: UNCLASSIFIED

February 2004

P3A (Continued)

## INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED:

LPD 4 CLASS B&A CRANE  
(LT260 S/A #1280K)

MODIFICATION TITLE:

ITEMS UNDER 5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

SHIPYD/COMP

ADMINISTRATIVE LEADTIME:

3 Months

PRODUCTION LEADTIME:

5 Months

CONTRACT DATES:

FY 2003:

5/03

FY 2004:

11/03

FY 2005:

11/04

DELIVERY DATE:

FY 2003:

11/03

FY 2004:

4/04

FY 2005:

5/05

(\$ in Millions)

Cost:			Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																					0	0.0
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT							2	1.6													2	1.6
FY 2004 EQUIPMENT							2	1.7			1	0.8									3	2.5
FY 2005 EQUIPMENT									AP	0.1	1	0.8									1	0.9
FY 2006 EQUIPMENT																					0	0.0
FY 2007 EQUIPMENT																					0	0.0
FY 2008 EQUIPMENT																					0	0.0
FY 2009 EQUIPMENT																					0	0.0
TO COMPLETE																						

## INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	1	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Out	0	0	0	0	0	0	0	1	1	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6

P-3A

## February 2004

## INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED:	<u>LPD 4 CLASS REFER PLANTS</u>	TYPE MODIFICATION:	<u>                    </u>	MODIFICATION TITLE:	<u>ITEMS UNDER 5M</u>
	(LT260 S/A #1273K)				

DESCRIPTION/JUSTIFICATION:

This shipalt replaces the currently installed, high maintenance cost, refrigeration plants with reliable, proven technology units on six extended sustainability LPD 4 class ships.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

			Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<u>RDT&amp;E</u>																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT					3	1.4	2	0.9	1	0.5											6	2.8
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER																						0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST					1	0.6	3	1.8	AP	0.1	2	1.2									6	3.7
TOTAL PROCUREMENT		0.0		0.0		2.0		2.7		0.6		1.2		0.0		0.0		0.0				6.5

CLASSIFICATION: UNCLASSIFIED

February 2004

P3A (Continued)

## INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED:

LPD 4 CLASS REFER PLANT  
(LT260 S/A #1273K)

MODIFICATION TITLE:

ITEMS UNDER 5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

SHIPYD/COMP

ADMINISTRATIVE LEADTIME:

3 Months

PRODUCTION LEADTIME:

10 Months

CONTRACT DATES:

FY 2003:

04/03

FY 2004:

11/03

FY 2005:

11/04

DELIVERY DATE:

FY 2003:

09/03

FY 2004:

9/04

FY 2005:

9/05

(\$ in Millions)

Cost:			Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																					0	0.0
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT					1	0.6	2	1.1													3	1.7
FY 2004 EQUIPMENT							1	0.7			1	0.6									2	1.3
FY 2005 EQUIPMENT									AP	0.1	1	0.6									1	0.7
FY 2006 EQUIPMENT																					0	0.0
FY 2007 EQUIPMENT																					0	0.0
FY 2008 EQUIPMENT																					0	0.0
FY 2009 EQUIPMENT																					0	0.0
TO COMPLETE																						

## INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	1	0	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Out	0	0	0	0	0	0	0	1	1	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6

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CLASSIFICATION: UNCLASSIFIED

February 2004

P3A

## INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: LPD 4 CLASS 450 VAC SWBD TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M  
 (640 AMP) (LT260 S/A #1271K)

## DESCRIPTION/JUSTIFICATION:

This shipalt replaces obsolete circuit breakers currently installed on six LPD 4 class extended sustainability ships with new units that are supportable in the supply system. The removed breakers will be used in a rotatable pool to help support the other five LPD4 Class ships that are not in the extended sustainability program.

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	QTY	\$	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<u>RDT&amp;E</u>																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT					3	11.2	2	6.1	1	3.2											6	20.5
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER																						0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST					1	3.8	2	7.7	2	7.7	1	3.6									6	22.8
TOTAL PROCUREMENT		0.0		0.0		15.0		13.8		10.9		3.6		0.0		0.0		0.0				43.3

CLASSIFICATION: UNCLASSIFIED

February 2004

P3A (Continued)

## INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED:

LPD 4 CLASS 450 VAC SWBD  
(640 AMP) (LT260 S/A #1271K)

MODIFICATION TITLE:

ITEMS UNDER 5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

SHIPYD/COMP

ADMINISTRATIVE LEADTIME:

3 Months

PRODUCTION LEADTIME:

6 Months

CONTRACT DATES:

FY 2003:

4/03

FY 2004:

11/03

FY 2005:

11/04

DELIVERY DATE:

FY 2003:

12/03

FY 2004:

5/04

FY 2005:

5/05

(\$ in Millions)

Cost:			Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																					0	0.0
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT					1	3.8	2	7.7													3	11.5
FY 2004 EQUIPMENT									2	7.7											2	7.7
FY 2005 EQUIPMENT											1	3.6									1	3.6
FY 2006 EQUIPMENT																					0	0.0
FY 2007 EQUIPMENT																					0	0.0
FY 2008 EQUIPMENT																					0	0.0
FY 2009 EQUIPMENT																					0	0.0
TO COMPLETE																						

## INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	1	0	1	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Out	0	0	0	0	0	0	0	1	1	1	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6

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## February 2004

### INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED:	LPD 4 CLASS LPAC (LT260 S/A #1272K)	TYPE MODIFICATION:	MODIFICATION TITLE:	ITEMS UNDER 5M
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DESCRIPTION/JUSTIFICATION:

This shipalt replaces currently installed LPACs on six LPD 4 class extended sustainability ships.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

			Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<u>RDT&amp;E</u>																						0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT					3	1.1	2	0.7	1	0.4											6	2.2
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER																						0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST							3	2.2	1	0.8	2	1.2									6	4.2
TOTAL PROCUREMENT		0.0		0.0		1.1		2.9		1.2		1.2		0.0		0.0		0.0				6.4

CLASSIFICATION: UNCLASSIFIED

February 2004

P3A (Continued)

## INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: LPD 4 CLASS LPAC  
(LT260 S/A #1272K)

MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION:

SHIPYD/COMP

ADMINISTRATIVE LEADTIME:

3 Months

PRODUCTION LEADTIME:

10 to 11 Months

CONTRACT DATES:

FY 2003:

04/03

FY 2004:

11/03

FY 2005:

11/04

DELIVERY DATE:

FY 2003:

09/03

FY 2004:

10/04

FY 2005:

10/05

(\$ in Millions)

Cost:			Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																					0	0.0
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT							3	2.1													3	2.1
FY 2004 EQUIPMENT							AP	0.1	1	0.7	1	0.6									2	1.4
FY 2005 EQUIPMENT									AP	0.1	1	0.6									1	0.7
FY 2006 EQUIPMENT																					0	0.0
FY 2007 EQUIPMENT																					0	0.0
FY 2008 EQUIPMENT																					0	0.0
FY 2009 EQUIPMENT																					0	0.0
TO COMPLETE																						

## INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	0	0	0	0	0	1	1	1	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Out	0	0	0	0	0	0	0	1	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6

P-3A

## February 2004

## INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED:	<u>LPD 4 CLASS HYDRA COMMS</u>	TYPE MODIFICATION:	<u>                    </u>	MODIFICATION TITLE:	<u>ITEMS UNDER 5M</u>
	<u>(LT260 S/A #1165K)</u>				

DESCRIPTION/JUSTIFICATION:

This shipalt replaces currently installed LPACs on six LPD 4 class extended sustainability ships.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

			Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<u>RDT&amp;E</u>																						0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT					6	3.6														6	3.6	
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER																						0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST					2	0.7	2	1.4	1	0.7	1	0.6								6	3.4	
TOTAL PROCUREMENT		0.0		0.0		4.3		1.4		0.7		0.6		0.0		0.0		0.0				7.0

CLASSIFICATION: UNCLASSIFIED

February 2004

P3A (Continued)

## INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: LPD 4 CLASS HYRDA COMMS  
 (LT260 S/A #1165K)

MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION:

SHIPYD/COMP

ADMINISTRATIVE LEADTIME:

3 Months

PRODUCTION LEADTIME:

8 to 10 Months

CONTRACT DATES:

FY 2003:

5/03

FY 2004:

FY 2005:

DELIVERY DATE:

FY 2003:

12/03

FY 2004:

FY 2005:

(\$ in Millions)

Cost:		Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																				0	0.0
FY 2002 EQUIPMENT																				0	0.0
FY 2003 EQUIPMENT					2	0.7	2	1.4	1	0.7	1	0.6								6	3.4
FY 2004 EQUIPMENT																				0	0.0
FY 2005 EQUIPMENT																				0	0.0
FY 2006 EQUIPMENT																				0	0.0
FY 2007 EQUIPMENT																				0	0.0
FY 2008 EQUIPMENT																				0	0.0
FY 2009 EQUIPMENT																				0	0.0
TO COMPLETE																					

## INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	1	0	1	0	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Out	0	0	0	1	0	0	0	1	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6

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CLASSIFICATION: UNCLASSIFIED

February 2004

P3A

## INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: COMMAND/CONTROL UPG (250 TON A/C)  
LT050 #1179/1180TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

--

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

	QTY	\$	<u>Prior Years</u>		<u>FY 2003</u>		<u>FY 2004</u>		<u>FY 2005</u>		<u>FY 2006</u>		<u>FY 2007</u>		<u>FY 2008</u>		<u>FY 2009</u>		<u>TC</u>		<u>TOTAL</u>	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<u>RDT&amp;E</u>																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT			5	4.8	3	2.7															8	7.5
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER																						0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST			4	11.6	A/P	0.1			4	9.4											8	21.1
TOTAL PROCUREMENT		0.0		16.4		2.8		0.0		9.4		0.0		0.0		0.0		0.0				28.6

CLASSIFICATION: **UNCLASSIFIED****February 2004**

P3A (Continued)

**INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: COMMAND/CONTROL UPG (250 TON A/C)  
 (LT050) #1179/1180

MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

SHIPYD/COMP

ADMINISTRATIVE LEADTIME:

9 Months

PRODUCTION LEADTIME:

12 Months

CONTRACT DATES:

FY 2003:

11/02

FY 2004:

FY 2005:

DELIVERY DATE:

FY 2003:

11/03

FY 2004:

FY 2005:

(\$ in Millions)

Cost:			Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS			4	11.6	A/P	.06			1	2.4											5	14.1
FY 0000 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT					A/P	.06			3	7.0											3	7.1
FY 2004 EQUIPMENT																					0	0.0
FY 2005 EQUIPMENT																					0	0.0
FY 2006 EQUIPMENT																					0	0.0
FY 2007 EQUIPMENT																					0	0.0
FY 2008 EQUIPMENT																					0	0.0
FY 2009 EQUIPMENT																					0	0.0
TO COMPLETE																						

## INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	4	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Out	4	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8

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CLASSIFICATION: UNCLASSIFIED

February 2004

P3A

INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED:

LPAC  
(LT050) LCC Class S/A#1325

TYPE MODIFICATION:

MODIFICATION TITLE:

ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

This shipalt replaces currently installed LPACs on LCC19 and LCC20 Command Ships.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	QTY	\$	Prior Years QTY	\$	FY 2003 QTY	\$	FY 2004 QTY	\$	FY 2005 QTY	\$	FY 2006 QTY	\$	FY 2007 QTY	\$	FY 2008 QTY	\$	FY 2009 QTY	\$	TC QTY	\$	TOTAL QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT			3	0.6			3	0.7													6	1.3
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER																						0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST			A/P	0.025	3	1.0		0.034	3	0.8											6	1.9
TOTAL PROCUREMENT		0.0		0.625		1.0		0.7		0.8		0.0		0.0		0.0		0.0				3.2

CLASSIFICATION: UNCLASSIFIED

February 2004

P3A (Continued)

## INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED:

LPAC

(LT050) S/A #1325

MODIFICATION TITLE:

ITEMS UNDER 5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

SHIPYD AND AIT

ADMINISTRATIVE LEADTIME:

6 Months

PRODUCTION LEADTIME:

12 Months

CONTRACT DATES:

FY 2003:

FY 2004:

11/03

FY 2005:

DELIVERY DATE:

FY 2003:

FY 2004:

11/04

FY 2005:

(\$ in Millions)

Cost:			Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS			AP	0.025	3	1.0															3	1.0
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT																					0	0.0
FY 2004 EQUIPMENT							AP	0.034	3	0.8											3	0.8
FY 2005 EQUIPMENT																					0	0.0
FY 2006 EQUIPMENT																					0	0.0
FY 2007 EQUIPMENT																					0	0.0
FY 2008 EQUIPMENT																					0	0.0
FY 2009 EQUIPMENT																					0	0.0
TO COMPLETE																						

INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Out	0	0	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6

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CLASSIFICATION: UNCLASSIFIED

February 2004

P3A

## INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED:

ICAN CVN CLASS (AIT)

TYPE MODIFICATION:

MODIFICATION TITLE:

ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																				
<u>RDT&amp;E</u>																				0.0
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				0.0
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING			2	5.0	1	3.0	2	3.0	2	2.0	2	2.0	2	2.2	2	3.4			13	20.6
EQUIPMENT																				0.0
EQUIPMENT NONRECURRING																				0.0
ENGINEERING CHANGE ORDERS																				0.0
DATA																				0.0
TRAINING EQUIPMENT																				0.0
SUPPORT EQUIPMENT																				0.0
OTHER																				0.0
OTHER																				0.0
OTHER																				0.0
INTERIM CONTRACTOR SUPPORT																				0.0
INSTALL COST			1	3.8	1	5.7	1	6.6	1	5.6	2	7.6	2	10.9	2	15.0	3	18.7		73.9
TOTAL PROCUREMENT		0.0		8.8		8.7		9.6		7.6		9.6		13.1		18.4		18.7		94.5

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED:

ICAN CVN CL (AIT)  
MACHINERY PLANT UPGRADE

MODIFICATION TITLE:

ITEMS UNDER 5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

CONTRACT DATES:

DELIVERY DATE:

AIT  
3 Months

PRODUCTION LEADTIME:

6 Months

FY 2003: 12/02  
FY 2003: Various

FY 2004: 12/03  
FY 2004: Various

FY 2005: 12/04  
FY 2005: Various

(\$ in Millions)

Cost:	Qty	\$	Prior Years	Qty	\$	FY 2003	Qty	\$	FY 2004	Qty	\$	FY 2005	Qty	\$	FY 2006	Qty	\$	FY 2007	Qty	\$	FY 2008	Qty	\$	FY 2009	Qty	\$	To Complete	Qty	\$	Total	Qty	\$
PRIOR YEARS																														0	0.0	
FY 2002 EQUIPMENT			1	3.2	1	5.1																							2	8.3		
FY 2003 EQUIPMENT			AP	0.6	AP	0.6	1	6.0																					1	7.2		
FY 2004 EQUIPMENT							AP	0.6	1	5.0	1	3.2																	2	8.8		
FY 2005 EQUIPMENT									AP	0.6	1	3.2	1	4.9															2	8.7		
FY 2006 EQUIPMENT											AP	1.2	1	5.4	1	6.6													2	13.2		
FY 2007 EQUIPMENT													AP	0.6	1	7.2	1	6.3											2	14.1		
FY 2008 EQUIPMENT															AP	1.2	2	12.4											2	13.6		
FY 2009 EQUIPMENT																													0	0.0		
TO COMPLETE																																

INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	1	0	0	0	1	0	1	0	0	1	0	0	0	1	1	0	0	0	1	0	1	0	1	0	1	1	0	1	1	0	13
Out	1	0	0	0	0	0	1	0	0	1	0	0	0	1	1	0	1	0	0	0	1	1	0	0	1	1	0	1	0	2	13

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CLASSIFICATION: UNCLASSIFIED

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## INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED:

SOLID STATE FREQUENCY CHANGERS

TYPE MODIFICATION:

MODIFICATION TITLE:

ITEMS UNDER 5M

LCC Class Ships (LT050) s/a #01332

DESCRIPTION/JUSTIFICATION:

Solid frequency Changers priority #20C.  
One ship set equals 3 units.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		IC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																				
<u>RDT&amp;E</u>																				0.0
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				0.0
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				0.0
EQUIPMENT			4	0.4	2	1.0													6	1.4
EQUIPMENT NONRECURRING																				0.0
ENGINEERING CHANGE ORDERS																				0.0
DATA																				0.0
TRAINING EQUIPMENT																				0.0
SUPPORT EQUIPMENT																				0.0
OTHER																				0.0
OTHER																				0.0
OTHER																				0.0
INTERIM CONTRACTOR SUPPORT																				0.0
INSTALL COST			4	1.4	2	0.6													6	2.0
TOTAL PROCUREMENT				1.8		1.6		0.0		0.0		0.0		0.0		0.0				3.4

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P3A (Continued)

## INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: SOLID STATE FREQUENCY CHANGERS MODIFICATION TITLE: ITEMS UNDER 5M  
LCC Class Ships (LT050) s/a #01332

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

SHIPYARD/AIT

ADMINISTRATIVE LEADTIME:

3 Months

PRODUCTION LEADTIME:

3 Months

CONTRACT DATES:

FY 2003:

11/02

FY 2004:

FY 2005:

DELIVERY DATE:

FY 2003:

02/03

FY 2004:

FY 2005:

(\$ in Millions)

Cost:	Prior Years		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS			4	1.4																	4	1.4
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT					2	0.6															2	0.6
FY 2004 EQUIPMENT																					0	0.0
FY 2005 EQUIPMENT																					0	0.0
FY 2006 EQUIPMENT																					0	0.0
FY 2007 EQUIPMENT																					0	0.0
FY 2008 EQUIPMENT																					0	0.0
FY 2008 EQUIPMENT																					0	0.0
TO COMPLETE																						

## INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	4	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Out	4	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6

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## INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: 2000KW GENERATORS TYPE MODIFICATION: \_\_\_\_\_  
 (LT050) LCC Class Ships s/a #1276

MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

--

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

	QTY	\$	Prior Years QTY	\$	FY 2003 QTY	\$	FY 2004 QTY	\$	FY 2005 QTY	\$	FY 2006 QTY	\$	FY 2007 QTY	\$	FY 2008 QTY	\$	FY 2009 QTY	\$	TC QTY	\$	TOTAL QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<u>RDT&amp;E</u>																						0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT			2	2.4	2	2.6															4	5.0
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER																						0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST			AP	0.8	2	8.9			2	9.5											4	19.2
TOTAL PROCUREMENT		0.0		3.2		11.5		0.0		9.5		0.0		0.0		0.0		0.0				24.2

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P3A (Continued)

## INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: 2000KW GENERATORS  
 (LT050) LCC Class Ships s/a #1276

MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION:

SHIPYARDADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 3 MonthsCONTRACT DATES:                      FY 2003: 12/02 FY 2004:                      FY 2005:                     DELIVERY DATE:                      FY 2003: 03/03 FY 2004:                      FY 2005:                     

(\$ in Millions)

Cost:			Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS			AP	0.6	2	8.7															2	9.3
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT			AP	0.2	AP	0.2			2	9.5											2	9.9
FY 2004 EQUIPMENT																					0	0.0
FY 2005 EQUIPMENT																					0	0.0
FY 2006 EQUIPMENT																					0	0.0
FY 2007 EQUIPMENT																					0	0.0
FY 2008 EQUIPMENT																					0	0.0
FY 2009 EQUIPMENT																					0	0.0
TO COMPLETE																						

## INSTALLATION SCHEDULE:

In  Out	FY 2002	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4

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## INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED:

SLEWING ARM DEVICES (SLADS)  
(LT050) LCC Ship Class s/a #1313

TYPE MODIFICATION:

MODIFICATION TITLE:

ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	QTY	\$	Prior Years QTY	\$	FY 2003 QTY	\$	FY 2004 QTY	\$	FY 2005 QTY	\$	FY 2006 QTY	\$	FY 2007 QTY	\$	FY 2008 QTY	\$	FY 2009 QTY	\$	TC QTY	\$	TOTAL QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<u>RDT&amp;E</u>																						0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT							3	0.5													3	0.5
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER																						0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST							AP	0.054	3	0.6											3	0.7
TOTAL PROCUREMENT		0.0		0.0		0.0		0.6		0.6		0.0		0.0		0.0		0.0				1.2

P3A (Continued)		INDIVIDUAL MODIFICATION (Continued)																				
MODELS OF SYSTEMS AFFECTED: <u>SLEWING ARM DEVICES (SLADS)</u> (LT050) LCC Ship Class s/a #1313  INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: <u>SHIPYARD</u> ADMINISTRATIVE LEADTIME: <u>4 Months</u> PRODUCTION LEADTIME: <u>6 Months</u>  CONTRACT DATES: <u>                    </u> FY 2003: <u>                    </u> FY 2004: <u>12/03</u> FY 2005: <u>                    </u> DELIVERY DATE: <u>                    </u> FY 2003: <u>                    </u> FY 2004: <u>06/04</u> FY 2005: <u>                    </u>		MODIFICATION TITLE: <u>ITEMS UNDER 5M</u>																				
(\$ in Millions)																						
Cost:			Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																					0	0.0
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT																					0	0.0
FY 2004 EQUIPMENT							AP	0.054	3	0.6											3	0.7
FY 2005 EQUIPMENT																					0	0.0
FY 2006 EQUIPMENT																					0	0.0
FY 2007 EQUIPMENT																					0	0.0
FY 2008 EQUIPMENT																					0	0.0
FY 2009 EQUIPMENT																					0	0.0
TO COMPLETE																						

  

INSTALLATION SCHEDULE:		FY 2002				FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3				
Out	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3				

CLASSIFICATION: UNCLASSIFIED

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## INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: LPD 17 CLASS HARDWARE/SOFTWARE OBSOLESCENCE TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M  
(LT240)

## DESCRIPTION/JUSTIFICATION:

This effort addresses hardware obsolescence and technologies refreshment issues. Funding is required to upgrade/maintain mission critical electronics systems including the Engineering Control System (ECS), Ship Control Systems (SCS), Degaussing System, Shipboard Wide-Area Network (SWAN), commercial software products for ECS, SCS, C4ISR and Administrative Communications.

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																				
<u>RDT&amp;E</u>																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT									0.5	1	4.5	2	9.9	4	17.2				7	32.1
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST											0.6	1	2.0	2	4.0	4	8.0		7	14.6
TOTAL PROCUREMENT		0.0		0.0		0.0		0.0		0.5		5.1		11.9		21.2		8.0		46.7

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P3A (Continued)

**INDIVIDUAL MODIFICATION (Continued)**MODELS OF SYSTEMS AFFECTED: LPD 17 CLASS HW/SW OBSOLESCENCE MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: VARIOUS AIT PRODUCTION LEADTIME: VARIOUS

CONTRACT DATES: FY 2003: \_\_\_\_\_ FY 2004: \_\_\_\_\_ FY 2005: \_\_\_\_\_ FY 2006: \_\_\_\_\_

DELIVERY DATE: FY 2003: \_\_\_\_\_ FY 2004: \_\_\_\_\_ FY 2005: \_\_\_\_\_ FY 2006: \_\_\_\_\_

(\$ in Millions)

Cost:			Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																					0	0.0
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT																					0	0.0
FY 2004 EQUIPMENT																					0	0.0
FY 2005 EQUIPMENT																					0	0.0
FY 2006 EQUIPMENT																					0	0.0
FY 2007 EQUIPMENT														0.6	1	2.0					1	2.6
FY 2008 EQUIPMENT																	2	4.0			2	4.0
FY 2009 EQUIPMENT																			4	8.0	4	8.0
TO COMPLETE																						

## INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	4	7
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	4	7

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TIME PHASED REQUIREMENT SCHEDULE					A. APPROPRIATION/BUDGET ACTIVITY										B. P-1 ITEM NOMENCLATURE										C. DATE									
P-23 SMART SHIP SYSTEMS					Other Procurement, Navy										ITEMS UNDER \$5 MILLION										February 2004									
(LT 140)															(81LT)																			
					FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				LATER	
					1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
ACTIVE FORCE INVENTORY (P)																																		
CV/CVN (P) 1						1	1					1		1			1		1					1		1			1					
SCHOOLS/OTHER TRAINING (P)																																		
OTHER (P)																																		
TOTAL PHASED REQ (C)					1	2	3	3	3	3	3	3	4	4	5	5	5	6	6	7	7	8	8	8	8	9	9	10	10	11	11	11	11	
ASSETS ON HAND (BP)																																		
DELIVERY FY 02 & PRIOR (1) (P) 1																																		
FY (P)																																		
FY 03 (2) (P)						1	1																											
FY 04 (P)																																		
FY 05 (2) (P)												1		1																				
FY 06 (2) (P)																1		1																
FY 07 (1) (P)																			1															
FY 08 (2) (P)																									1		1							
FY 09 (1) (P)																													1					
To Complete (P)																																		
TOTAL ASSETS (C)					1	2	3	3	3	3	3	3	4	4	5	5	5	6	6	7	7	8	8	8	8	9	9	10	10	11	11	11	11	
QTY OVER (+) OR SHORT (-)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
D. REMARKS					E. RQMT (QTY)								TOTAL RQMT		INSTALLED ON 10/02		ON HAND AS OF 10/02		FY 02 & PRIOR UNDELIVERED		UNFUNDED													
					1. APPN - OPN (1810)								11		1		0		0		0													
					2. APPN -																													
					3. PROCUREMENT LEADTIME								ADMIN		INITIAL ORDER		REORDER																	

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TIME PHASED REQUIREMENTS SCHEDULE (SUPPLEMENT SHEET-INSTALLATION DATA) P-23A								P-1 ITEM NOMENCLATURE/PROJECT UNIT  ITEMS UNDER \$5 MILLION (81LT) SMART SHIP (LT140)								DATE  <u>February 2004</u>			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy								Installing Agent											
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR					
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY				
FY 2002								FY 2003											
				CVN 70						CVN 73	1	CVN 72	1						
FY 2004								FY 2005											
								CVN 74	1			CV 67	1						

P-1 SHOPPING LIST

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TIME PHASED REQUIREMENTS SCHEDULE (SUPPLEMENT SHEET-INSTALLATION DATA) P-23A								P-1 ITEM NOMENCLATURE/PROJECT UNIT  ITEMS UNDER \$5 MILLION (81LT) SMART SHIP (LT140)								DATE <u>February 2004</u>			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy								Installing Agent											
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR					
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY				
FY 2006								FY 2007											
		CVN 65	1			CVN 71	1			CVN 69	1								
FY 2008								FY 2009											
		CVN 68	1			CVN 76	1			CVN 75	1								

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